

PLANNING CONSENT P2014/0729

**ENERGYBUILD Ltd.
(Or the Operating Company)**

**ABERPERGWM COLLIERY
SCHEME FOR THE MONITORING OF SURFACE WATER DRAINAGE ARRANGEMENTS ASSOCIATED
WITH THE ABERPERGWM MINE, HAUL ROAD AND MINE WASTE REPOSITORY.**

AUGUST 2021

CONDITION 33. The surface water drainage arrangements at the site shall be monitored in accordance with a scheme to be submitted to and approved in writing by the Local Planning Authority within 12 months of the date of re-commencement of underground operations at the mine as notified in accordance with Condition 3 above. The schemes shall be implemented as approved and shall include remedial measures as necessary to ensure effective control of surface water.

Reason

The prevention of pollution of the water environment

NOTE:

The term Energybuild or the operating company was a term mandated by NPTCBC at the outset of the planning application process for the Planning Consent for the site.

Energybuild is currently the operating company and as such holds the responsibility to ensure that its affairs are conducted in a manner so as to comply with all statutory provisions relevant to its undertakings. Should the company name change at some time in the future due to change of ownership/takeover etc., then the new company would become the operator.

SCHEME FOR THE MONITORING OF SURFACE WATER DRAINAGE ARRANGEMENTS ASSOCIATED WITH THE ABERPERGWM MINE, HAUL ROAD AND MINE WASTE REPOSITORY.

INTRODUCTION

This scheme serves the purposes of Condition 33 of planning Consent P2014/0729. It deals with Energybuild's provisions for inspecting reporting and documentation of reports and relevant actions taken in relation to all site run off drainage and water treatment features. Please refer to Plan No EB/SD/2/LS. Drainage System Plan. **Appendix 6.**

SITE DESCRIPTION AND DRAINAGE FEATURES.

The site and its associated drainage features can be split into four distinct areas. Each individual area is again associated with its individual consented discharge point. They are described as follows below.

1. The Aberpergwm Mine surface.
2. The Cae Capel processing and sales area.
3. Mine Water treatment system.
4. The haul road to the Mine Waste Repository. Both Upper and lower systems.

Each separate area has a varying number of lagoons and interconnecting drainage ditches and channels which are particular to its system and consented discharge point.

The separate water treatment and discharge systems are spread over an extensive area.

The Cae Capel processing and sales area together with the Aberpergwm Mine surface are situated at an elevation of approximately 55m AOD, whilst the mine waste repository lies at an elevation of approximately 450AOD. The interconnecting haul road extends for approximately 5.4km between the Aberpergwm/Cae Capel site and the Mine Waste Repository.

1. Cae Capel processing and Sales yard.

Operations carried out within the processing yard consist of processing raw coal into a saleable product, product stocking, and the loading of coal into trucks for transportation to customers.

The yard area is served by a total of seven lagoons/catchment pits which ultimately discharge via consented discharge consent number EPR/DP3025GS. The onsite interconnecting ditches between the lagoons are generally of a formal nature of concrete and preformed concrete nature, refer to plan number EB/SD/2/LS. Drainage System Plan

2. Aberpergwm Colliery Surface Yard.

Operations within the Aberpergwm Colliery surface yard are concerned with activities in support of the underground mining operation, the transfer of coal from the underground conveying system to processing plant and a workshop facility for the repair of underground vehicles.

The Aberpergwm yard area is served by four lagoons/catchment pits which discharge via discharge consent point BP0299101.

The feeder channels communicating between the lagoons are generally precast and in situ cast concrete construction.

3. Pumped Mine Water Discharge Lagoons.

Mine water pumped from underground is discharged at the Pwllfaron Drift. It is then piped into a series of two lagoons and is ultimately discharged via consented discharge point BP016610101.

The discharge has a dual classification for the discharge of rainfall dependant site drainage which serves the lower haul road treatment system and also mine water as described above.

4. Lower Haul Road Water Treatment System

The lower haul road runoff water treatment system gathers run off water from the lower 700m of the haul road to the Mine Waste Repository. The roadside ditches which collect the runoff water of the haul road are of an armoured stone construction. The road surface itself is profiled and cambered to maintain flow into the ditches. The collected water flows through a series of three lagoons/settling ponds and is ultimately discharged via consented discharge point BP016610101. Refer to plan number EB/SD/2/LS. Drainage System Plan.

5. Upper Haul Road Treatment System.

The upper haul road treatment system covers and extends over a further 3,400m up along the haul road to the vicinity of the Mine Waste Repository. The roadside ditches which collect the runoff water of the haul road are of an armoured stone construction. The road surface itself is profiled and cambered to maintain flow into the ditches. The collected water flows through a series of nine lagoons/settling ponds and is ultimately discharged via consented discharge point BPO355301 Refer to plan number EB/SD/2/LS. Drainage System Plan.

The haul road to the mine waste repository is vital keeping mine productivity at an optimum level and consequently it is critical that it is maintained in good and serviceable condition.

Regular maintenance of the haul road guarantees that road degradation is controlled, and a high standard is maintained. The haul road is generally well-constructed and has been substantially improved over the recent years. Although haulage machinery (ADT's) are designed to cope with rough conditions, the less damage there is to machinery, the lower the costs of maintenance and operation. An irregular road surface resulting from the formation of potholes, ruts, depressions and bumps increases wear on every part of the vehicle. Such road damage also has a major impact on tyre-life.

Running surface deterioration, most importantly, will also serve to generate unacceptable levels of pollution of the water treatment facilities and hence the consented discharged water quality.

The maintenance of a clean and stable running surface so that environmentally acceptable water quality discharges are achieved is of the highest priority.

This document should be read in conjunction with **P2014/0729 Condition 8, Haul Road Management and maintenance Plan.**

6. Mine Waste Repository

The proposed Mine Waste Repository (MWR) covers a total site area of approximately 84 hectares including the peat bog area. Much of the area is bare ground with some restored areas and there are remaining overburden mounds and retained topsoil stored on the western side of the site.

The main river catchment boundary associated with the site is defined immediately to the north by a watershed formed by the Hirfynydd Ridge that runs in a north-east south-west direction through the site. Surface water issues from the hillside just below the ridgeline flow away from the site on both sides and one minor watercourse is formed on the west side of the site to join with the Rheola Brook and another minor watercourse on the east side of the site connects to the Nant Clwyd. The surface water runoff is currently directed along a small roadside channel and into the tributary of the Nant Clwyd.

The ground falls away at fairly steep gradients towards the south and a number of minor watercourses form to carry the surface water run-off in a southerly direction with steep gradients towards the River Neath. A local gentle watershed divides the site from north to south with the western side of the site forming part of the Rheola Brook catchment and eastern side of the site is part of the Nant Clwyd catchment.

Two legacy water treatment areas already exist on site with WTA 2A Outlet 1 discharging to the west and WTA 2B Outlet discharging to the east. These facilities are still in place and are fully operational. Both surface water discharges are covered by the current environmental permit, reference EPR/DP3024XW.

MONITORING OF SURFACE WATER DRAINAGE ARRANGEMENTS

Scheme of inspection

The provisions for routine examination of the water treatment facilities will fall under the formalised general inspection and maintenance at the mine. Inspection frequencies and type for each installation are held on a central database. Inspection requirements are flagged at the appropriate times and dates and paper check sheets issued to the persons responsible for performing the inspections at the appropriate time.

On completion of the inspections the person responsible populates the check sheets with the findings. Any deficiencies that can be rectified immediately are corrected. Deficiencies that cannot be rectified immediately are recorded on the inspection check sheets and returned to the maintenance controller.

The controller will then issue a defect action sheet to the relevant head of department who must ensure that the defect is rectified within a predefined time frame. **Appendix 6.** On completion of the defect rectification the defect action sheet must be completed with a record of the actions taken and returned to the maintenance controller. In the event that any sheets are not completed and returned to the controller or that corrective measures are not taken the sheets are reissued and the circumstances are reported to senior management for intervention.

The inspections and checks are detailed below.

- 1. Daily Inspection.** A daily inspection is carried out by the site supervisor and recorded in his daily site inspection sheet. The inspection may involve more than one supervisor dependant on the division of site responsibility. **The daily inspection is generally a cursory check of installations, which includes a water discharge assessment. An example of a daily site supervisor's daily inspection record can be found in Appendix 1.**
- 2. Weekly Inspection.** The weekly inspection is a more formalised and thorough examination where the aspects checked, and any defects detected are recorded on the specified check for each separate or installation. Weekly check lists will also be carried out after any extreme weather or abnormalities. Example of weekly inspection checklist can be found in **Appendix 2.**

Individual check specified for weekly inspections are itemised below.

- Water Quality – visual. **Water sampling and analysis will be carried out on a monthly basis.**
- Pond integrity – cracking etc.

- Freeboard – Overtopping.
- Valves (if installed) – Operational.
- De-silting Required.
- Flocculent Required?
- Safety Signs.
- Life Preserver.
- Anomalies.
- Infeed and outlet ditches.

3. Quarterly Major Examination

The quarterly inspection is a combination of quarterly and weekly checks and thorough examination of all structures. Defects detected are recorded on the specified check for each separate or installation. Example of a quarterly inspection checklist can be found in **Appendix 3**.

Individual checks specified, in addition to the weekly inspections are itemised below.

- Check Structural stability of lagoon, cracks, subsidence etc.
- Check integrity of infeed, outlet and roadside ditches.
- Check culvert pipes for efficiency and freedom from blockages.
- Check for detrimental scouring and overtopping etc.
- Check for roadway gradient and clearance for infeed water.
- Any unspecified anomalies.

4. Annual Major Examination

The annual inspection is a combination of quarterly and weekly checks and thorough examination of all structures. Defects detected are recorded on the specified check for each separate or installation. Example of an annual inspection checklist can be found in **Appendix 4**.

Individual checks specified, in addition to the weekly and quarterly inspections are itemised below.

- Arrange geotechnical inspection of lagoon structures.

- De-silt all lagoons.

PREVENTATIVE MEASURES

In order to prevent erosion of the haul road surfaces and tipping areas the associated generation of rubble and fine material **all haulage and tipping operations will cease during heavy rain fall episodes or other adverse conditions.**

“Heavy rainfall episodes or other adverse conditions” are defined as any climactic condition which will cause any excessive degradation of the haul road running surface, with any potential and consequential pollution or other adverse impacts on the drainage system.

The haul road and waste repository will be inspected thoroughly prior to restart after any suspension of operations this includes drainage facilities. The pre restart inspection is a requirement of The Mines and Quarries Regulations 2014.

During adverse weather conditions additional checks, their frequency dependant on the nature and severity of the circumstances, will be carried on throughout the day. Details of these inspections and the reasons and stoppage of operations will be recorded in the daily report.

Energybuild operate a comprehensive Management Organisation. In relation to the mine waste repository, site operations are managed and controlled by a site Manager and a site Supervisor. The site Supervisor has daily operational control of the operations carried on. The site Supervisor is responsible for ensuring haulage and tipping operations are carried on in an environmentally acceptable manner and that work on site is stopped when this cannot be achieved. The site supervisor is responsible for the daily inspection of the haul road and mine waste repository including all drainage features. The result of his inspections is recorded in the daily inspection record book; please refer to Appendix 1 of the Condition 33 Scheme. This report is countersigned by the site Manager on a daily basis. Defects reported are acted upon immediately. The responsibility for corrective measures rests with the site supervisor in the first instance and ultimately with the site manager. Defects which cannot be rectified immediately are reported through the reporting chain to senior site management who then adopt the responsibility for providing the appropriate resources

The haul road and waste repository are inspected thoroughly prior to restart after any suspension of operations this inspection includes drainage facilities. The pre restart inspection is a requirement of The Mines and Quarries Regulations 2014. Details of these inspections and the reasons and stoppage of operations will be recorded in the daily report.

At no point along the entire drainage system is potentially contaminated site drainage allowed to discharge into the surrounding watercourses without passing through a lagoon system and a consented discharge point.

Sources of clean water e.g., water that emanates from undisturbed or restored areas and requires to traverse the haul road have been culverted beneath.

The colour coded plan EB-SD-S-LS is intended to be an indicative depiction of the spatial grouped distribution of the lagoon system in relation to the whole site area.

MAINTENANCE

General maintenance will be carried out as defined within the inspection reports and action instruction sheets contained within Appendices 1 to 5.

- De-silting of catchment pits and lagoons. Catchment pits and lagoons will be de-silted when they reach 50% of their capacity or otherwise on an annual basis. Vigilance will be maintained by means of the inspection and monitoring regime on the rate of accumulation of silt. Lagoons will be desilted during the drier summer periods in preparedness for inclement winter periods.

It is normal that there is no discharge from the lagoon systems for several months during the drier summer months and the opportunity is always taken to perform maintenance operations during these drier periods. The configuration of the lagoon system allows us to overpump in circumstances where maintenance is required in wet situations.

Care is taken to ensure that over desilting of the individual lagoons on too frequent basis does not elicit continued disturbance and resultant on going/extended pollution events.

- Subsequent to any adverse weather event the drainage system, lagoons, ditches, culverts and all other drainage features will be thoroughly inspected, and corrective measures carried out immediately should any be required.

WATER ANALYSIS

Water samples will be taken and analysed on a **MONTHLY BASIS** from each consented discharge point. Records of the water analysis results will be graphically maintained in order that adverse trends may be identified and acted on.

Signed *Neil Price*

Date November 2021

J N Price
Energybuild Ltd.

**SCHEME FOR THE MONITORING OF SURFACE WATER DRAINAGE
ARRANGEMENTS ASSOCIATED WITH THE ABERPERGWM MINE,
HAUL ROAD AND MINE WASTE REPOSITORY.**

APPENDIX 1. SUPERVISORS DAILY INSPECTION RECORD.

ABERPERGWM COLLIERY, MINE WASTE REPOSITORY		DAY	ENERGYBUILD THE MINES REGULATIONS 2014 REGULATION 12 DAILY SITE INSPECTION		DATE
INITIALS OF PERSON EXAMINING		LOCATION, DEFECTS (AND ANY OTHER POINTS COVERED BELOW) AS OBSERVED OR REPORTED TO YOU. ACTIONS TAKEN. COMMENTS AND INITIALS OF ANY PERSON SENIOR IN THE MANAGEMENT STRUCTURE		INITIALS OF PERSON EXAMINING	LOCATION, DEFECTS (AND ANY OTHER POINTS COVERED BELOW) AS OBSERVED OR REPORTED TO YOU. ACTIONS TAKEN. COMMENTS AND INITIALS OF ANY PERSON SENIOR IN THE MANAGEMENT STRUCTURE
STABILITY AND CONDITION OF ALL STRUCTURES AND MINERAL PILES				CONDITION OF GUARDING OF ALL SITE PLANT AND MACHINERY	
IN ORDER	ATTENTION REQUIRED			IN ORDER	ATTENTION REQUIRED
HAUL ROUTES AND ACCESS ROADS INCLUDING SIDE AND DROP OFF PROTECTION				ACCESSES, WALKWAYS, LAGOONS AND DRAINAGE CHANNELS	
IN ORDER	ATTENTION REQUIRED			IN ORDER	ATTENTION REQUIRED
VEHICLES INCLUDING BRAKES AND ALL REQUIRED SAFETY DEVICES				CONDITION OF WATER DISCHARGES	
IN ORDER	ATTENTION REQUIRED			IN ORDER	ATTENTION REQUIRED
EXCAVATIONS STABILITY PROTECTION AND WARNING				WARNING SIGNS AND BARRIERS	
IN ORDER	ATTENTION REQUIRED			IN ORDER	ATTENTION REQUIRED
				FIRST AID EQUIPMENT AND FACILITIES	
IN ORDER	ATTENTION REQUIRED			IN ORDER	ATTENTION REQUIRED
ANY OTHER MATTERS WHICH MAY AFFECT HEALTH AND SAFETY					
I CERTIFY THAT THIS REPORT IS A FULL AND ACCURATE RECORD OF THE INSPECTION CARRIED OUT OF THE SITE AND CONTAINS ALL THE INFORMATION KNOWN TO ME WHICH IS MATERIAL TO THE PROPER WORKING OF THE SITE AND TO THE HEALTH AND SAFETY OF PERSONS EMPLOYED THERE AT.					
TIME OF INSPECTION	COMMENCED			COMPLETED	
SIGNED..... INSPECTOR POSITION.....DATE.....					
SIGNED..... PERSON SUPERIOR IN MANAGEMENT STRUCTURE					
POSITION.....DATE.....					

**SCHEME FOR THE MONITORING OF SURFACE WATER DRAINAGE ARRANGEMENTS
ASSOCIATED WITH THE ABERPERGWM MINE, HAUL ROAD AND MINE WASTE
REPOSITORY.** N e i l N e i l n e i l . p r i c e @ e n e r g y b u i l d

APPENDIX 2. WEEKLY INSPECTION CHECKLIST.

ABERPERGWM COLLIERY

Mngr's Schm of Mine
ME4 Routine

DEPARTMENT : Mechanical Surface

DISTRICT : CAE CAPEL LAGOONS

√ for ok x for defect

WEEK ENDING Sun 08 Aug 2021

Location	Examination	Frq	Su	Mo	Tu	We	Th	Fr	Sa	ACTION TAKEN or WORK REQUIRED.
CATCHMENT LAGOON L1	CHECK:-	1								
CATCHMENT LAGOON L1	Water quality/visual	1								
CATCHMENT LAGOON L1	Pond integrity/cracking etc	1								
CATCHMENT LAGOON L1	Freeboard/O. topping	1								
CATCHMENT LAGOON L1	Valves-operational	1								
CATCHMENT LAGOON L1	De-silting req.d?	1								
CATCHMENT LAGOON L1	Flocculent ?	1								
CATCHMENT LAGOON L1	Safety signs	1								
CATCHMENT LAGOON L1	Lifebelt	1								
CATCHMENT LAGOON L1	Fencing	1								
CATCHMENT LAGOON L1	Anomolies	1								
PRIMARY SETTLEMENT L2	CHECK:-	1								
PRIMARY SETTLEMENT L2	Water quality/visual	1								
PRIMARY SETTLEMENT L2	Pond integrity/cracking etc	1								
PRIMARY SETTLEMENT L2	Freeboard/O.topping	1								
PRIMARY SETTLEMENT L2	Valves-operational	1								
PRIMARY SETTLEMENT L2	De-silting req.d?	1								
PRIMARY SETTLEMENT L2	Flocculent ?	1								
PRIMARY SETTLEMENT L2	Safety signs	1								
PRIMARY SETTLEMENT L2	Lifebelt	1								
PRIMARY SETTLEMENT L2	Fencing	1								
PRIMARY SETTLEMENT L2	Anomolies	1								
ATTENUATION LAGOON L3	CHECK:-	1								
ATTENUATION LAGOON L3	Water quality/visual	1								
ATTENUATION LAGOON L3	Pond integrity/cracking etc	1								
ATTENUATION LAGOON L3	Freeboard/O.topping	1								
ATTENUATION LAGOON L3	Valves-operational	1								
Craftsmans initials each day										
Supervisors initials each day										
Craftsmans signature Supervisors signature Frq : frequency of examination, D:- Daily, 1:- Weekly, 2:- 2 Weekly etc										

DEPARTMENT : Mechanical Surface

DISTRICT : CAE CAPEL LAGOONS

✓ for ok x for defect

WEEK ENDING Sun 08 Aug 2021

Location	Examination	Frq	Su	Mo	Tu	We	Th	Fr	Sa	ACTION TAKEN or WORK REQUIRED.
ATTENUATION LAGOON L3	De-siling req.d?	1								
ATTENUATION LAGOON L3	Flocculent ?	1								
ATTENUATION LAGOON L3	Safety signs	1								
ATTENUATION LAGOON L3	Lifebelt	1								
ATTENUATION LAGOON L3	Fencing	1								
ATTENUATION LAGOON L3	Anomolies	1								
POLISHING LAGOON L4	CHECK:-	1								
POLISHING LAGOON L4	Water quality/visual	1								
POLISHING LAGOON L4	Pond integrity/cracking etc	1								
POLISHING LAGOON L4	Freeboard/O.topping	1								
POLISHING LAGOON L4	Valves-operational	1								
POLISHING LAGOON L4	De-silting req.d?	1								
POLISHING LAGOON L4	Flocculent ?	1								
POLISHING LAGOON L4	Safety signs	1								
POLISHING LAGOON L4	Lifebelt	1								
POLISHING LAGOON L4	Fencing	1								
POLISHING LAGOON L4	Anomolies	1								
POLISHING LAGOON L5	CHECK:-	1								
POLISHING LAGOON L5	Water quality/visual	1								
POLISHING LAGOON L5	Pond integrity/cracking etc	1								
POLISHING LAGOON L5	Freeboard/O.topping	1								
POLISHING LAGOON L5	Valves-operational	1								
POLISHING LAGOON L5	De-silting req.d ?	1								
POLISHING LAGOON L5	Flocculent ?	1								
POLISHING LAGOON L5	Safety signs	1								
POLISHING LAGOON L5	Lifebelt	1								
POLISHING LAGOON L5	Fencing	1								
Craftsmans initials each day										
Supervisors initials each day										
Craftsmans signature					Supervisors signature					
Frq : frequency of examination, D:- Daily, 1:- Weekly, 2:- 2 Weekly etc										

Location	Examination	Frq	Su	Mo	Tu	We	Th	Fr	Sa	ACTION TAKEN or WORK REQUIRED.
POLISHING LAGOON L5	Anomolies	1								
WHEEL WASH LAGOON	CHECK:-	1								
WHEEL WASH LAGOON	Water quality/visual	1								
WHEEL WASH LAGOON	Pond integrity/cracking etc	1								
WHEEL WASH LAGOON	Freeboard/O.topping	1								
WHEEL WASH LAGOON	Valves-operational	1								
WHEEL WASH LAGOON	De-silting req.d?	1								
WHEEL WASH LAGOON	Flocculent ?	1								
WHEEL WASH LAGOON	Safety signs	1								
WHEEL WASH LAGOON	Lifebelt	1								
WHEEL WASH LAGOON	Fencing	1								
WHEEL WASH LAGOON	Anomolies	1								
WASHERY DISC LAGOON	CHECK:-	1								
WASHERY DISC LAGOON	Water quality/visual	1								
WASHERY DISC LAGOON	Pond integrity/cracking etc	1								
WASHERY DISC LAGOON	Freeboard/O.topping	1								
WASHERY DISC LAGOON	Valves-operational	1								
WASHERY DISC LAGOON	De-silting req.d?	1								
WASHERY DISC LAGOON	Flocculent ?	1								
WASHERY DISC LAGOON	Safety signs	1								
WASHERY DISC LAGOON	Lifebelt	1								
WASHERY DISC LAGOON	Fencing	1								
WASHERY DISC LAGOON	Anomolies	1								
PWLLFARON POND	CHECK:-	1								
PWLLFARON POND	Water quality/visual	1								
PWLLFARON POND	Pond integrity/cracking etc	1								
PWLLFARON POND	Freeboard/O.topping	1								
Craftsmans initials each day										
Supervisors initials each day										
Craftsmans signature		Supervisors signature								

Frq : frequency of examination, D:- Daily, 1:- Weekly, 2:- 2 Weekly etc

Mngr's Schm of Mine

DEPARTMENT : Mechanical Surface

✓ for ok x for defect

WEEK ENDING Sun 08 Aug 2021

Location	Examination	Frq	Su	Mo	Tu	We	Th	Fr	Sa	ACTION TAKEN or WORK REQUIRED.
PWLLFARON POND	Valves-operational	1								
PWLLFARON POND	De-silting req.d?	1								
PWLLFARON POND	Flocculent ?	1								
PWLLFARON POND	Safety signs	1								
PWLLFARON POND	Lifebelt	1								
PWLLFARON POND	Fencing	1								
PWLLFARON POND	Anomolies	1								
Craftsmans initials each day										
Supervisors initials each day										
Craftsmans signature		Supervisors signature								

Frq : frequency of examination, D:- Daily, 1:- Weekly, 2:- 2 Weekly etc

**SCHEME FOR THE MONITORING OF SURFACE WATER DRAINAGE ARRANGEMENTS
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REPOSITORY.**

APPENDIX 3. MONTHLY MAJOR EXAMINATION.

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WEEKENDING : Sun 31 Oct 2021
DEPARTMENT : Mechanical Surface
DISTRICT : LAGOON (MAJORS)
Location : ABERPERGWYM YARD
Item : Aberpergwm Yard
Job Number : 486350
Frequency : 4 weeks

INSTRUCTIONS:

N.B. report all defects.

PRIMARY SETTLEMENT (FSV GARAGE) L9
SETTLING LAGOON L8
POLISHING LAGOON L6
POLISHING LAGOON L7

- 1) Take water samples from discharge points - arrange analysis
- 2) Check structural stability of lagoon. failure of banks
cracks, subsidence etc
- 3) Check integrity of infeed and road side ditches
- 4) Check culvert pipes for efficiency and free from blockage
- 5) Check for detrimental scouring, over topping
- 6) Check for apparent leakage or short circuit of system water
- 7) Check roadway gradient and clearance for infeed of water
- 8) Any unspecified anomalies

REPORT:

Craftsmans Signature

Date completed

Supervisors Signature

**SCHEME FOR THE MONITORING OF SURFACE WATER DRAINAGE ARRANGEMENTS
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REPOSITORY.**

APPENDIX 4. ANNUAL MAJOR EXAMINATION

WEEKENDING : Sun 08 Aug 2021
DEPARTMENT : Mechanical Surface
DISTRICT : LAGOON (MAJORS)
Location : ABERPERGWM YARD
Item : Aberpergwm Yard
Job Number : 437738
Frequency : 52 weeks

INSTRUCTIONS:

N.B. report all defects.

PRIMARY SETTLEMENT (FSV GARAGE) L9
SETTLING LAGOON L8
POLISHING LAGOON L6
POLISHING LAGOON L7

Arrange Geo technical Inspection of structures
De-silt Lagoons

REPORT:

Craftsmans Signature

Date completed

Supervisors Signature

**SCHEME FOR THE MONITORING OF SURFACE WATER DRAINAGE ARRANGEMENTS
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REPOSITORY.**

APPENDIX 5. DEFECT ACTION SHEET

Masham
Regs 1993

ENERGYBUILD
ABERPERGWM COLLIERY

M.E.6

T H I S I S A D E F E C T A C T I O N S H E E T

DATE REPORTED : Wed 07 July 2021

DEPARTMENT : Mechanical Surface

DISTRICT : ABERPERGWM YARD LAGOONS

Location : Polishing Lagoon L6

Job Number : 123456

INSTRUCTIONS: RECTIFY ALL DEFECTS

Cloudy water - floc required

R.J. Samuel

REPORT:

Craftsmans Signature Date completed

Supervisors Signature

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APPENDIX 6. PLAN NUMBER EB/SD/2/LS. DRAINAGE SYSTEM PLAN

ENERGYBUILD
ABERPERGWM COLLIERY

DRAINAGE SYSTEM PLAN

CONDITION 33, PLANNING CONSENT
P2004-0729

WATER TREATMENT AND MONITORING

NOVEMBER 2021

REF. EB/SD/SLS

